Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Learner Registration Number

Pearson BTEC Level 1/Level 2 Tech Award

Sample assessment materials for first teaching September 2022

Time 1 hour 30 minutes

Paper reference **BIT03**

Digital Information Technology

COMPONENT 3: Effective Digital Working Practices

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

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Answer ALL questions. Write your answers in the spaces provided.

1 Retro Imps uses a website to sell spare parts for old cars.

(a) State **two** benefits for Retro Imps of using a website to sell spare parts.

(2)

1 .....

2 .....

(b) One possible external threat to Retro Imps' website is a denial-of-service attack. The attack could be used to crash its website.

Explain **one other** possible external threat to Retro Imps' website.

(2)

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(c) Retro Imps is improving their website design.

One design feature it could include is to have consistent layout, so that customers can easily find what they are looking for on the website.

Explain **one other** design feature that Retro Imps could include.

(2)

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(d) Retro Imps' customers must register their details when they use the website to buy car parts.

When they register they create a username and a strong password.

Explain **one** feature of a strong password.

(2)

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(e) Retro Imps uses cloud storage to store all its data.

Explain **two** benefits for Retro Imps of using cloud storage.

(4)

1 .....

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2 .....

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(Total for Question 1 = 12 marks)

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2 Tree Canopy School provides education to students aged 11–18.

The school restricts access to its confidential data.

One method it uses to restrict user access is passwords.

(a) Give **two other** methods of user access restrictions the school could use.

(2)

1 .....

2 .....

(b) Tree Canopy School has an acceptable use policy.

The policy includes details of acceptable behaviours when using the school's IT systems.

Explain **one** reason why a student must sign the school's acceptable use policy.

(2)

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At the end of Year 11, students can apply to the school's Sixth Form College.

They use an online application form to apply for the course they want to do.

The application form's design includes accessibility features that are suitable for visually impaired students.

(c) Annotate the image by:

identifying and labelling two different accessibility features of the application form stating how each feature helps visually impaired students.

An example has been provided.

(4)

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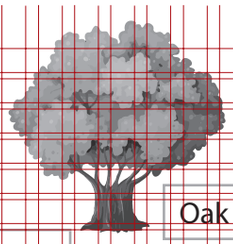
Tree Canopy Sixth Form College

Application Form



Oak tree image

Alt Text which describes the image on the form

Name: *

Address: *

Telephone number: *

Email address: *

Date of birth: *

Gender: *

Emergency contact name: *

Emergency contact telephone number: *

Course applying for: *

Please complete all information highlighted with an *

Send

(d) Stealing or leaking information is an example of an internal threat to the school's IT systems.

Explain **two other** possible internal threats to the school's IT systems.

(4)

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(Total for Question 2 = 12 marks)

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3 Ladle Supermarket is a national supermarket chain.

It uses social media to communicate with customers.

(a) Explain **one** drawback to Ladle supermarket of using social media to communicate with customers.

(2)

Ladle Supermarket uses tills where customers pay for their purchases.

The tills are always switched on, so they use a lot of electricity.

(b) Explain **two** usage and setting policies that Ladle Supermarket can set up to reduce the amount of electricity used.

(4)

1

2

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Ladle Supermarket provides its customers with store loyalty cards.

(c) Explain **two** ways Ladle Supermarket can use loyalty card data.

(4)

1 .....

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2 .....

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(d) When a purchase is made at the till the system checks stock levels and reorders stock when needed. Part of Ladle Supermarket's process to order stock is:

1. Information of the stock item purchased is received from the till.
2. The stock item purchased is deducted from the current stock level for that item.
3. The new stock level is compared to the stock reorder level for that item.
4. If the new stock level is less than the stock reorder level more stock of that item is ordered.
5. This process is repeated until all items purchased have been checked.

Draw a Flowchart that shows this part of the process.

(6)

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(Total for Question 3 = 16 marks)

4 Net South Bank is a high street bank. The bank has many offices and branches in the UK.

Data is constantly being transmitted between the bank's offices and branches.

The bank use encryption to protect this data.

(a) Describe how encryption can protect the data during transmission.

(3)

Net South Bank is going to employ a white hat hacker.

(b) Explain **one** reason why Net South Bank would employ a white hat hacker.

(2)

(c) Explain **one** impact of a security breach for the bank.

(3)

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Net South Bank uses social media channels to collect information about customer opinions.

The information gathered is used by the bank to report to their stakeholders.

(d) Discuss the factors the bank needs to consider which could affect the quality of the information they get from social media.

(6)

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Data collected from social media channels is used to improve the bank's services for its customers. The data will inform the user requirements for improved systems. The bank must ensure that they use this data in a responsible manner.

(e) Evaluate the impact on the bank of the need to use data in a responsible manner when defining user requirements.

(6)

(Total for Question 4 = 20 marks)

TOTAL FOR PAPER = 60 MARKS

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